

Title (en)
Composition of cyclodextrin with budesonide derivatives for treatment and prevention of pulmonary inflammatory disease

Title (de)
Zusammensetzung von Cyclodextrin mit Budesonidderivaten zur Behandlung und Vorbeugung von entzündlichen Lungenerkrankungen

Title (fr)
Composition de cyclodextrine avec des dérivés de budésonide pour le traitement et la prévention d'une maladie inflammatoire pulmonaire

Publication
EP 2923702 A1 20150930 (EN)

Application
EP 14162158 A 20140328

Priority
EP 14162158 A 20140328

Abstract (en)
A pharmaceutical composition for use in the therapeutic and/or prevention treatment of pulmonary inflammatory disease, comprising a cyclodextrin compound and a budesonide derivative of formula I

IPC 8 full level
A61K 31/58 (2006.01); **A61K 9/00** (2006.01); **A61K 47/48** (2006.01); **A61P 11/00** (2006.01)

CPC (source: CN EP KR RU US)
A61K 9/0073 (2013.01 - CN KR RU US); **A61K 9/08** (2013.01 - RU); **A61K 31/56** (2013.01 - CN EP KR RU US);
A61K 31/57 (2013.01 - CN EP KR RU US); **A61K 31/573** (2013.01 - CN EP KR RU US); **A61K 31/58** (2013.01 - CN EP KR US);
A61K 31/724 (2013.01 - KR); **A61K 47/40** (2013.01 - KR RU US); **A61K 47/6951** (2017.07 - EP KR RU US); **A61P 11/00** (2017.12 - EP RU);
A61P 29/00 (2017.12 - EP); **A61P 37/08** (2017.12 - EP); **C08B 37/0015** (2013.01 - EP KR US); **C08L 5/16** (2013.01 - EP KR US)

Citation (applicant)
• S. CULPITT ET AL., AM J RESPIR CRIT CARE MED, vol. 160, 1999, pages 1635 - 1639
• STEPHEN D; BRUCK ED: "Cyclodextrin-Enabling Excipient; their present and future use in Pharmaceuticals", CRITICAL REVIEW IN THERAPEUTIC DRUG CARRIER SYSTEMS, vol. 14, no. 1, 1997, pages L-114
• J SZEJTLI: "Cyclodextrin Technology", 1998, KLUWER ACADEMIC PUBLISHERS, pages: 1 - 78
• "Remington's Pharmaceutical Sciences", 1980, MACK PUBLISHING CO.
• CATALDO ET AL., AM.J.PATHOL, vol. 161, no. 2, 2002, pages 491 - 498
• CATALDO DD; TOURNOY KG; VERMAELEN K ET AL., AM J PATHOL, vol. 161, no. 2, 2002, pages 491 - 498
• WILLIAMS S.; NATH P; LEUNG S ET AL., EUR RESPIR J., vol. 32, no. 3, September 2008 (2008-09-01), pages 571 - 8
• K.ACONNORS, CHEM. REV, vol. 97, 1997, pages 1325 - 1357

Citation (search report)
• [X] US 2009312724 A1 20091217 - PIPKIN JAMES D [US], et al
• [X] EP 1894559 A1 20080305 - PARI PHARMA GMBH [DE]
• [X] WO 2005065649 A1 20050721 - CYDEX INC [US], et al
• [I] DJEDAINI F ET AL: "NUCLEAR MAGNETIC RESONANCE INVESTIGATION OF THE STOICHIOMETRIES IN BETA-CYCLODEXTRIN: STEROID INCLUSION COMPLEXES", JOURNAL OF PHARMACEUTICAL SCIENCES, AMERICAN PHARMACEUTICAL ASSOCIATION, WASHINGTON, US, vol. 80, no. 12, 1 December 1991 (1991-12-01), pages 1157 - 1161, XP000242285, ISSN: 0022-3549, DOI: 10.1002/JPS.2600801213

Cited by
BE1027612B1; CN114364374A; EP4190321A1; WO2021048322A1

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
EP 2923702 A1 20150930; AU 2015238174 A1 20161020; AU 2020205304 A1 20200806; AU 2020205304 B2 20230427;
CA 2944080 A1 20151001; CN 113144215 A 20210723; EP 3151836 A2 20170412; EP 3151836 B1 20230308; JP 2017509709 A 20170406;
MA 39407 A1 20170929; MX 2016012509 A 20170704; RU 2016138795 A 20180503; RU 2016138795 A3 20190207; RU 2722414 C2 20200529;
SG 11201608075V A 20161028; TW 201625265 A 20160716; TW I725935 B 20210501; UA 123894 C2 20210623; US 2016051568 A1 20160225;
US 9993487 B2 20180612; WO 2015144938 A2 20151001; WO 2015144938 A3 20160331

DOCDB simple family (application)
EP 14162158 A 20140328; AU 2015238174 A 20150330; AU 2020205304 A 20200716; CA 2944080 A 20150330;
CN 202110176573 A 20150330; EP 15741867 A 20150330; EP 2015056929 W 20150330; JP 2017501502 A 20150330; MA 39407 A 20150330;
MX 2016012509 A 20150330; RU 2016138795 A 20150330; SG 11201608075V A 20150330; TW 104110203 A 20150330;
UA A201610090 A 20150330; US 201514672831 A 20150330